

Math 80 Quiz #9
March 10, 2009

Name: _____

Show all work and simplify your answers as much as possible. Put a box around your final answer.

1. Simplify the following as much as possible.

(a) (1 pt.) $\sqrt{81}$

(c) (1 pt.) $\sqrt{75}$

(b) (1 pt.) $-\sqrt{\frac{9}{100}}$

2. (2 pts.) **Factor** $2x^4 - 6x^3 - 36x^2$

3. (3 pts.) **Solve** the equation $3t^2 + 8t = -5$

4. (2 pts.) I want to make a rectangular chocolate bar for which the length is **3 times** the width and the area is 48 inches². What should the dimensions be?

Notes: Area of a Rectangle = Length·Width Area of a Triangle = $\frac{1}{2}$ ·Base·Height

Pythagorean Theorem: $a^2 + b^2 = c^2$ (a , b : Legs, c : Hypotenuse)